California Regional Water Quality Control Board Los Angeles Region

Sinda S. Adams

Linda S. Adams
Acting Secretary for
Environmental Protection

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February 23, 2011

Mr. Charles Wagner Chief Administrative Officer City of Avalon 410 Avalon Canyon Road Avalon, California 90704 Certified Mail Return Receipt Requested Claim No. 7010 1670 0002 4237 8956

NOTICE OF VIOLATION – CITY OF AVALON, UNPERMITTED DISCHARGE OF RAW SEWAGE – AVALON, CALIFORNIA (ORDER NO. 2006-0003-DWQ, WDID 4SSO10349)

Dear Mr. Wagner:

The City of Avalon (Enrollee) operates a sanitary sewer system under waste discharge requirements (WDRs) contained in Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, Water Resources Control Board Order No. 2006-0003-DWQ (SSO WDR) which was adopted by the State Water Resource Control Board on May 2, 2006.

The SSO WDR contains waste discharge requirements and a monitoring and reporting program for the operation of the Enrollee's sanitary sewer systems referenced above. The Enrollee can collect and/or convey untreated or partially treated wastewater to a publicly owned treatment facility in the State of California. This wastewater is susceptible of containing high levels of suspended solids, pathogenic organisms, toxic pollutants, nutrients, oxygen-demanding organic compounds, oil and grease, and other pollutants which can degrade water quality and impact beneficial uses of water, and which are defined as wastes under the Porter-Cologne Water Quality Control Act (CWC § 13000 et seq.).

On October 28, 2010, EPA Region 9, accompanied by the Los Angeles Regional Water Quality Control Board (Regional Board) and the State Attorney General's Office, conducted an inspection at the City of Avalon to determine compliance with the requirements under the SSO WDR. The inspection report is enclosed for your reference (See Exhibit 1 – attached).

The SSO WDR, states that any spill that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited. Furthermore, the Enrollee is required to report sanitary sewer overflows (SSOs) to the statewide SSO database as of the City's enrollment on August 17, 2006. Based on information included submitted by the City and included in the inspection report, from January 1, 2005 through February 23, 2011 six (6) SSOs occurred. Of the six (6) SSOs listed, three (3) in 2010 were reported in accordance with the SSO WDR and two (2) in 2009 were not reported to the SSO database. One (1) spill in 2005 was not reported (See Exhibit 2 – attached).

You are hereby notified that the Enrollee is in noncompliance with the waste discharge requirements established in Board Order No. 2006-0003-DWQ and has violated California Water Code (CWC) §§ 13350 and 13383 as follows:

• Sanitary Sewer Overflows:

You are in non-compliance with the SSO WDR for six (6) spills from your collection system between January 1, 2005 and February 23, 2011. All six (6) spills impacted waters of the State. Furthermore, one (1) spill that occurred in 2005 was not reported and two (2) spills that occurred in 2009 were not reported in the SSO data base by the Enrollee. These three (3) spills are identified on page 5 of the inspection report under the heading "Spills" within the table titled "Sanitary Sewer Overflows From and Caused by Utility".

You are required to immediately:

- Comply with the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, 2006-0003-DWQ.
- Comply with the recommendations listed in items 2 through 8 of the Inspection Summary Exhibit 2 (Attachment 2, pages 29 through 34 of the Inspection Report).

Submit a written response 1) confirming you have corrected these violations with a brief description of how you have corrected them, or 2) identifying when you will have completed correcting these violations and a brief description of how you will correct them. Submit your written response by March 9, 2011 to:

Russ Colby Regional Water Quality Control Board – Los Angeles Region 320 W. 4th Street, Suite 200 Los Angeles, CA 90013-2343

Pursuant to CWC § 13350 (e), you are subject to penalties of up to \$5,000 for each day in which the violation occurs or \$10 for each gallon of waste discharged, but not both. Furthermore, pursuant to CWC § 13385, you are subject to penalties of up to \$10,000 for each day in which the violation occurs plus \$10 multiplied by the number of gallons by which the volume discharged but not cleaned up exceeds 1,000 gallons. These civil liabilities may be assessed by the Regional Board for failure to comply, beginning with the date that the violations first occurred, and without further warning. Furthermore, this matter may be referred to the Attorney General for further enforcement. The Regional Board reserves its right to take any further enforcement action authorized by law.

If you have any questions regarding this matter, please call Mr. Russ Colby at (213) 620-6373.

Sincerely,

Paula Rasmussen, Chief

Compliance and Enforcement Section

Enclosure:

Exhibit 1 - City of Avalon SSOs

Exhibit 2 – Sewage Collection System Inspection Form

cc: JoAnn Cola, U.S. EPA, Region 9

Noah Golden-Krasner, Deputy Attorney General, CA Attorney General's Office – Los Angeles Gerald Addington, Vice President, United Water

SEWAGE COLLECTION SYSTEM INSPECTION FORM (EPA Reg 9; form revised September 23, 2010)

GENERAL INFORMATION

Inspection Date: October 28, 2010

Utility Na	me: City of Avalor	Wastew	vater Trea	tment Plant	
Address:1	23 Pebbly Beach R	oad	•		
Avalon, C					
Contact Po	erson: Charlie Wa	gner, Chi	ief Admin	istrative Officer, City of Avalon	
Phone:	310-510-0220	Cell:		Fax:	
Email:	,				

Inspectors Names	Agency/Contractor
JoAnn Cola	U.S. EPA, Region 9
Russ Colby	State of California RWQCB, Region 4
Raul Medina	State of California RWQCB, Region 4
Ivar K. Ridgeway	State of California RWQCB, Region 4
L.B. Nye	State of California RWQCB, Region 4
Hugh Marley	State of California RWQCB, Region 4
Brandi Outwin	State of California RWQCB, Region 4
Noah Golden-Krasner	State of California Attorney General's
	Office, Los Angeles

Utility personnel who accompanied inspectors

Name	Tiue
Charlie Wagner	Chief Administrative Officer, City of
* · · · · · · · · · · · · · · · · · · ·	Avalon
Denise Radde	City Manager's Office, City of Avalon
Pastor Lopez	Director of Public Works, City of Avalon
Vic Savage	Area Manager, United Water
Brent Brady	Project Manager, United Water
Ralph Sogliuzzo	Assistant Project Manager, United Water
Mike Jones	Former Avalon Project Manager, United Water
Shawn Hagerty	BBK, representing City Attorney's Office

SYSTEM OVERVIEW

(This inspection form was filled out by the City of Avalon and e-mailed to EPA after the inspection. Inspector has added notes.)

Population:	<u> 3,800</u>	Service Area (Sqr. Miles): <u>1.4</u>
Service Area	a Description:	The City of Avalon is an island resort community.
		•

	Residential	Commercial	Industrial	Total
Number of	1,500	200		
service				
connections			1	

Combined Sewers (% of system): <2% (Inspector is unclear as to the meaning of this response.)

Name and NPDES permit number for WWTP(s) owned or operated by the collection system utility: Waste Discharge Requirements for the City of Avalon Order No. R4-2008-0028 NPDES No. CA0054372

Name and NPDES permit number for WWTP(s) that receive flow from the collection system utility: **None**

Names of upstream collection sys	tems sending flow to th	ne collection system	utility:
None Names of downstream collection	systems receiving flow	from the collection	system utility:
N/A	•	•	

Do any interagency agreements exit with upstream collection systems? (Y/N) N/A

Does the utility maintain the legal authority to limit flow from upstream satellite collection systems? (Y/N) N/A

SYSTEM INVENTORY (LIST ONLY ASSETS OWNED BY UTILITY)

Miles of gravity main	Miles of force main	Miles of Laterals	Number of maintenance access structures	Number of pump stations	Number of siphons
11	1.25	Unknown	Appx. 125	2	0

Utility responsibility for laterals (none, whole, lower) lower

Size Distribution of Collection System

Side Distriction of Control of Co				
Diameter in inches	Gravity Sewer (miles)	Force Mains (miles)		
6 inches or less	8.25	0		
8 inches	1.75	0.9		
9 - 18 inches	0.5	0.3		
19 - 36 inches	0.5	0		
> 36 inches	0	0		

Age Distribution of Collection System

Age	Sewer Mains, miles	# of Pump Stations
0 - 25 years	6.7	0
26 - 50 years	5.5	2
51 - 75 years	0	0
> 76 years	0	0

(City's response appears reflective of pipe lining work. During the interview, the City indicated that pipes were installed 100 years ago.)

SYSTEM FLOW CHARACTERISTICS

Collection System		
Average Daily Dry Weather Flow (MGD)	Peak Daily Wet Weather Flow (MGD)	Peak Instantaneous Wet Weather Flow (MGD)
0.4	0.7 (Summer Q)	2.0

Location of flow monitor(s) from which above information obtained: WWTP effluent meter

Period over which flow was monitored: 24 hours/day

Agency conducting the flow monitoring: United Water Environmental Services, Inc.

If no flow monitors, describe method for estimating flows:

Wastewater Treatment Plant						
Average Daily Dry Weather Flow (MGD)	Peak Daily Wet Weather Flow (MGD)	Peak Instantaneous Wet Weather Flow (MGD)				
0.4	0.7	2.0				

Upstream Satellite Name	Avg. Dry W (MGD)	eather Flow % of total flow	Peak Flow (MGD)	Flow based on meter or estimate?
Hamilton Cove	0.02	4.0	.05	estimate

Constructe	d Overflow Points	
Overflow	Location	 Number of Discharges/Year
Point		
None	•	
		

REGULATORY BACKGROUND

Does the system operate under the provisions of an NPDES permit (either their own or under provisions of another agencies permit)? (Y/N) Y

Permit holder: (City of Ava	lon	Perm	nit# NPD	ES Perm	it No. CA(0054372	٧.
List provision c	of the permi	t that apply	y (If permit h	older is o	ther than t	he agency	being insp	ected)
	<u> </u>		•					
				· .				
		 :						-
					•			
Which agency (Health Depart Quality Contro	ment; Cali	fornia Of	fice of Emer					
Outline the spil applicable statu						quirement	for each	·
plan.			<u> </u>				-	
•								
					•	•		

SPILLS

		San	itary Sewer	Overflov	vs From ar	nd Caused b	y Utility	7	,
Note:	Note: Spill Rate = number of SSOs/100 miles of sewer pipe/year								
Year		Mains			Laterals			Totals	
	(Mil	es of Mair	ıs <u>11</u>)	(Mile	s of Latera	als <u>0</u>)	(Total Miles	11)
	#SSOs	(1)Spill	Gross	#SSOs	(2)Spill	Gross	Total	(3)Total	Total
		Rate	Spill		Rate	Spill	SSOs	Spill	Gross
		(see	Volume		(see	Volume		Rate	Spill
./		below)			below)			(see	Volume
	:							below)	
2010	3	27	29,200	NR			.3	.27	29,200
2009	2	18	14,300	NR			2	18	14,300
2005	1	9	1,300	NR			1	9	1,300
				:				<u> </u>	
Total	6		44,800	NR					

- (1)Spill Rate = [(#SSOs in main pipe) X 100]/Miles of Main Pipe in System
- (2)Spill Rate = [(#SSOs in laterals) X 100]/Miles of Lateral in System
- (3)Total Spill Rate = [(#SSOs in Main + #SSOs in Laterals)X100]/[Miles of Main + Miles of Laterals]

Spill Cause

Year				Bloc	kage	. ,				vity	l l	rce		mp	Сар	acity
(as listed in	Gre	ease	Ro	ots	De	bris	Mul	tiple		pe eak	1	ain eak	Sta	tion		
Table										1 0/	1,			. ′	. 11	1 0/
above)	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
2010	•											1	2	66	1	34
2009													2	100		
2005		,			1	100			,							ļ <u>.</u>
				}								ļ			·	
Total								ļ <u>.</u>				<u> </u>			<u> </u>	<u></u>

Please attach a copy of facility spill records for each of the past five years. The information for each spill should include, at a minimum, the following: Date of spill, time spill reported, location of spill (address and city), whether the spill occurred in a private lateral, whether it reached a surface water, total volume of the spill, volume of spill recovered, volume of spill that reached a surface water, the appearance point of the spill, final spill destination, spill cause and explanation, whether a health warning was posted.

BUILDING BACKUPS (list only backups caused by problems in sewer mains)						
Year	Number of backups	Cost of Settled Claims				
2010	1	In process				
TOTAL	1					

STAFFING

Indicate *Number of Staff – As pertaining specifically to collection system responsibilities
*Provided as numerical or FTEs or positions
Management and Administrative: Budgeted_ <u>0.2</u> _Filled <u>0.2</u> _
Maintenance: Budgeted <u>0.0</u> Filled <u>0.0</u> Electricians and Mechanical Technicians: Budgeted <u>0.0</u> Filled <u>0.0</u> Operators: Budgeted <u>0.6</u> Filled <u>0.6</u>
Engineering: Budgeted <u>0.0</u> Filled <u>0.0</u>
Number of Certified Collection System Operators/Certification Program:
Number of Sewer Cleaning Crews: <u>1.0</u>
Sewer Cleaning Crew Size: <u>0.6</u>

Contractor Services	Contractor Name(s) (NA if contractors not used)	Cost (\$/year)
Sewer Cleaning	Performance Pipeline	\$20,000
Chemical Root Control	None	\$0
Spot Repairs	Jamison Eng.	\$10,000
CCTV	Performance Pipeline	\$20,000
Spill Response	None	\$0
Other:	·	

EQUIPMENT

List Major Equipment Owned by the Utility:

Equipment	Number	Number in Service
Combination Trucks	1	1
(hydroflush and vactor)		
Hydroflusher	0	0
Mechanical Rodder	0.	0
CCTV Truck	0	0
Utility Truck	2	2
Portable Pumps	3	3
Portable Generator	3	3
·		

FINANCIAL

Does the collection system operate from an enterprise fund? Yes/No

REVENUES	
Revenue Source	Annual Revenue (\$/year)
User Fees	\$1,330,632
Connection Fees	\$10,000
Grants	
Bonds	
SRF Loans	
Interest	\$15,100
TOTAL	

EXPENSES		
Expense	Annual Cost (\$/year)	Cost / Mile of Pipe (Total Pipe Mileage: 12.5
Maintenance	\$225,753	\$18,060
Operations (electric, fuel, etc.)	\$15,000	\$1,200
Salaries and Benefits	\$45,573	\$3,646
-Capital Improvements	-(See ACIA budge	et) -
Debt payments		
Contract services	\$878,685	\$70,295
TOTAL	\$1,165,011	\$93,201

Average Monthly Household User Fee for

Sewage Collection: <u>\$36.06</u> (<u>\$432.71 billed annually</u>)
Wastewater Treatment: <u>No separate charge</u>
Total Wastewater Fees: <u>\$36.06</u> (<u>\$432.71 billed</u>

annually)

Sewer Fee Rate Basis (i.e. water consumption, flat rate, etc.): <u>Flat rate based on number of units</u>

Last Fee Increase (Date): 7/01/2009

Planned Fee Increases: A fee increase is expected in FY2011 - 2012 as the sewer master plan is developed.

Capital Improvement Fund: <u>\$885.000</u> for <u>one</u> years <u>(see ACIA budget)</u> (City's budget is attached.)

SPILL RESPONSE, NOTIFICATION AND REPORTING

Does the Utility Have a Written Spill Response Plan? <u>Yes</u>
Is the Plan Carried by Maintenance/Spill Response Crews? <u>No</u>

Indicate Elements Included In the Spill	Response I	Plan
Element	Y/N	Comment
Identification of Responsible Staff	Y	United Water emergency call-out sheet
DISPATCH		<u> </u>
System for Becoming Aware of Spills	Y	
System for Receiving Public Calls	Y	
Dispatch Procedures – Normal Hours	Y	
Dispatch Procedures – After Hours	Y	
Coordination with First Responders	Y	
(police, fire department)		
Response Time Goal	20 min.	
SPILL CONTROL/MITIGATION	11/1/1	<u> </u>
Spill Response Activity Sequence	Y	
Spill Site Security	Y	Local sheriff as needed
Procedures for Stopping Spills	Y	
Spill Containment	\mathbf{Y}	
Protection of Storm Drains	N	Storm drain system provides containment
Cleanup/Mitigation	\mathbf{Y}_{-}	
DOCUMENTATION		<u> </u>
Spill Volume Estimation Method		Volume based on pump rate and time
(list method in comment field)	MINI	element involved
Determination of Spill Start Time	\mathbf{Y}	
Spill Sampling	N	
Receiving Water Sampling	Y	
Photographing Spill Site	Y	·
Field Notes Form	N	

Spill Report Form	Y	
NOTIFICATION	1/////	<u> </u>
Notification of Affected Public	Y	
(schools, recreational users, etc.)		
Posting Warning Signs	Y	
Sanitation Information re: building	Y	
backups		
REPORTING	11/1/1/	<u> </u>
Reporting Procedures	Y	
Spill Report Forms	Y	
Persons Responsible for Filing Reports	Y	Plant manager

Are all spills reported regardless of volume? Yes

Are Contractors Required to Follow Spill Response Procedures? Yes

Average Spill Response Time (normal work hours): 0.3 hours

Average Spill Response Time (after hours/holidays): 0.5 hours

Does the Utility CCTV Pipes Following Spill? No

Are Cleaning Schedules Adjusted in Response to Spills? No

Types of problems subject to hot spot cleaning? None

SEWER CLEANING AND MAINTENANCE

Are Maps on GIS Datab	netaried Sewer System in Passe? <u>No</u> Maintenance Crews? <u>No</u>		<i>i</i> .
	ent System is (check whi ized <u>X</u> Both	chever is applicable): Other (describe)	
ANNUAL SEWER CI	EANING – Include hyd	roflushing, mechanical and hand rodding	
	xcluding repeats	Pipe Cleaning Including Repeats	
(miles/year)	% of system/year	(miles/year)	
2	20	2	
pipe segment more than	once during that visit?	e cleaned in a single visit if they clean the s	ame
System Cleaning Freque	ency (years to clean entir	e system): _5_	

HOT SPOT CLEAN	ING SCHEDULE		
Cleaning Frequency	Number of Locations	Pipe length excluding repeats (miles)	Pipe length including repeats (miles)
1/month	-		
6/year			
4/year			
2/year			
1/year	3	< 1 mile	< 1 mile

CHEMICAL ROOT TREATMENTS Length of pipe subject to chemical root Chemical treatment frequency: Never		(miles/year):
Root treatment chemicals used:		
SPOT REPAIRS		
Spot repairs completed annually:	(#/yea	r);(miles/year)
Spot repair budget (\$/year): Spot repair expenditures last year: \$		egr'
Spot repair expenditures last year.	y	Cai
ODORS		
Annual number of complaints: 3		
Odor hot spot locations: Pebbly Beac	<u>h</u>	
Odor treatment facilities: 2		
EASEMENT PIPE CLEANING		
Total length of easement pipes (miles):	0	
Annual easement pipe cleaning (miles/y		
Do maintenance workers have access to		ents?
problems. Preventive maintenance is FATS, OILS AN Does the Utility have a FOG source con	performe VD GREA	SE (FOG) CONTROL
Ordinance Citation: Agency responsible for implementing the	e FOG co	ntrol program: City of Avalon
Agency responsible for implementing the	0.000	mior program. <u>Out of 11, or 1</u>
Number of Food Service Establishments		
Number of FSEs subject to FOG ordinary	nce: <u>0</u>	
	3.0	The state of the s
Indicate Elements Included In the Fo	od Service	Establishment FOG Source Control
Program Element	Y/N	Comment
FSE Permits	N	Comment
FSE inspections	N	
FSE enforcement	N	
Oil & grease discharge concentration	N	
limit		
Grease removal device (GRD)		
requirements:	MINNI TO THE STATE OF THE STATE	<u> XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</u>
traps	N	

			· 		<u>:</u>		
interceptors	N	<u> </u>					
Automatic cleaning traps	N	<u> </u>				,	······································
FSEs subject to GRD installation:	1////	1///		(////	(/////	14414	<u> </u>
all FSEs (new and existing)	N						
new FSEs	- N					<u>:.</u>	
remodeled FSEs	N						<u> </u>
for cause at existing FSEs	N					· .	
GRD maintenance requirements:	1/////		[4][1][<i>[[][]</i>	<u> </u>	
Cleaning frequency	0						
25% rule (grease and solids	N				•		
accumulation)	· .			-		· · · · · · · · · · · · · · · · · · ·	
Kitchen BMP Requirements							
(list required BMPs below)			[[]]]]	<u> </u>	<u> </u>	<u> </u>	1/1///
	4 · · · · · · · · · · · · · · · · · · ·				·		
· ·		٠,				·	
Allowance for chemical additives?	N/A						
Allowance for biological additives?	N/A						
FOG Disposal Requirements	N/A						
FOG Disposal Manifest System	N/A						

Permit writers <u>0</u> Other <u>0</u>	
FSE Inspection frequency: <u>N/A</u>	
Annual number of FSE inspections: <u>0</u>	
Does Utility use CCTV to identify FOG sources? No	

Number of FOG Program staff: Inspectors <u>0</u>

Does sewer maintenance staff coordinate with FOG source control program staff? No Cleaning targeted to FOG hot spots? N/A

Maintenance crew referrals to FOG program? N/A

Pipe repairs at FOG hot spots? N/A

Describe program	for public	outreach	and	education	related t	o reside	ential FO	DG sources:
								

PIPE INSPECTION AND CONDITION ASSESSMENT

Gravity Main Inspection

Describe Pipe Inspection Methods: Gravity sewers are inspected using a CCTV system.

Miles of Pipe Inst	ected in the Last	10 Years and Planned	Inspection Next 10	Years
Date Range	Inspection	Miles of Pipe	Useable Condition	n Assessment
	Method	without repeats	Miles of Pipe	% of System
			(without repeats)	(System miles:)
2000 to present	CCTV	8.25	8.25	75%
2000 to present	Other		- -	
Present to 2020	CCTV	11	11	100%
Present to 2020	Other	2.2	2.2	20%

Describe Planned	Pipe	inspection:	20%	(2.2)	miles/	vear)
		1				

Summary	of Condition	Assessment]	Findings:

Force Mains

Describe Force Main Inspection Methods: None

Describe Program for Inspecting Air Relief Valves: N/A

Private Laterals

Does the Utility Inspect Private Laterals? Yes

Number of Private Laterals Inspected 2006 to Present: 325

Summary of Inspection Findings: 129 laterals relined, 196 replaced (2008).

Number of Private Laterals Planned for Inspection Present to 2020

CAPACITY ASSURANCE

List Locations and Dates of Repeats Capacity Spills:

Pebbly Beach Pump Station

8/31/10

8/22/10

10/5/05

List Locations of Known Capacity Bottlenecks:

Dry Weather: Pebbly Beach Pump Station

Catherine Pump Station

Wet Weather: Pebbly Beach Pump Station
Catherine Pump Station

Describe I&I Assessments Completed by the Utility (dates, area covered, findings, etc.): A hydraulic and infiltration analysis was conducted for each site/basin for the flow monitoring period of March 12, 2004 to May 01, 2004. A summary of the relevant data is provided in Table 5.1 (below).

Net daily average and diurnal flows from each metered area were typical of other like sized areas with similar land uses. Estimated base infiltration (BI) rates system-wide do not appear to be unreasonably high, although there is evidence to suggest that some isolated zones within the system may be experiencing above standard BI rates. The BI rates since 1993 appear to have decreased in Basins 003 and 004 as well as system-wide. Hydraulic performance at each metered site indicates the system is not experiencing any significant dry-weather capacity issues.

<u> </u>					
Table 5.1 Summary of Bi and Hydraulic Factors					
Basin/Site	Net Flow (MGD)	Base Infiltration (%ADDF)	Maximum Observed Gross Flow Peaking Factor	Max. d/D Ratio (%)	
AVALON_001	-0.02	4 R	1.74	54%	
	0.084	28%	1.96	58%	
AVALON_002	0.064	38%	1.89	26%	
AVALON_003	0.123	34%	1:91	53%	
AVALON_004	0.058	40%	1.89	41%	
AVALON_005	0.035	32%	2:69	33%	
AVALON_006	0.023	32%	1.92	47%	
AVALON_007		52%	1.98	16%	
AVALON_008	0.029	35%-	2.05	26%	
AVALON_009	0.022	~10%	2.18	26%	
AVALON_010	0.037		2.33	21%	
AVALON_011	0.026	33%	2.00		

Flow Meters (number, locations):

Describe Flow Model Used by the Utility:

Inflow

Does the Utility Prohibit Storm Water Connections to the Sanitary Sewer (roof drains, sump pumps, etc.)? **Unknown**

Describe Program for Enforcing Ban on Illicit Connections: Unknown

Describe Program for Locating Illicit Connections (smoke testing, etc.): Smoke testing done in 1999.

Locations Subject to Street Flooding: Clarissa and Crescent Streets.

Has the Utility Sealed Manholes in Locations Subject to Street Flooding: Yes

I&I Control

Describe I&I Control Projects (miles of pipe rehabilitated or replaced for I&I Control)

Recently Completed Projects: All manholes in "the Flats" sealed; all mains in "the Flats" sliplined.

Planned Projects: Unknown

Describe Capacity Control Measures (relief sewers, storage, WWTP expansion, etc.)

Recently Completed Projects: None.

Planned Projects: Unknown.

INFRASTRUCTURE RENEWAL AND CAPITAL IMPROVEMENTS

Pipe Rehabilitation and Replacement Methods Used:

Miles of Pipe Rehabilitated or Replaced: Last 10 Years and Planned Next 10 Years				
Date Range	Miles of Pipe	% of System		
·		(System miles:)		
1999 to present	6.7	55%		
Present to 20	Unknown	N/A		

Describe Capacity Improvement Program: N/A

List Major Planned Improvements:

Per City of Avalon: The FY 2010-2011 ACIA sewer budget contains \$885,000 for capital improvements. Listed below:

Total	\$885,000
Emergency Generator -WWTP	125,000
Slip Lining - Marilla, et al	350,000
Camera - Marilla, et al	20,000
Slip Lining - Falls Canyon	25,000
Casino Sewer Laterals	120,000
Decant Tank Refit	245,000

Describe Master Plan:

Per City of Avalon: The City will award a contract to RBF Consulting on November 16, 2010. This contract will be the basis of developing a master plan to map, grade and improve the system, city wide.

(During the inspection, the City indicated that, although the funds listed above had been budgeted, the projects were "on hold" pending review by the new contractor. The City indicated uncertainty that the projects had been properly described and prioritized, as it was in the middle of a contract dispute with its O&M contractor.)

PUMP STATIONS (Please complete one sheet for <u>EACH</u> pump station)

Name and Location of Pump Station: Pebbly Beach Pump Station

n		· · · · · · · · · · · · · · · · · · ·	
Dry or	Capacity	Constant or	In Service?
Submersible			
Drywell Sub			Yes
Drywell Sub			Yes
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PUMP STATIONS (Please complete one sheet for <u>EACH</u> pump station)

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antity of overflow	/bypass: Gallons or	MG <u>0 gallons</u>	<u> </u>
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ATTACHMENT 1

PHOTOGRAPHS TAKEN DURING INSPECTION OF CITY OF AVALON, CALIFORNIA

Photographs IMG_3259 through IMG_3268 were taken by JoAnn Cola on October 28, 2010

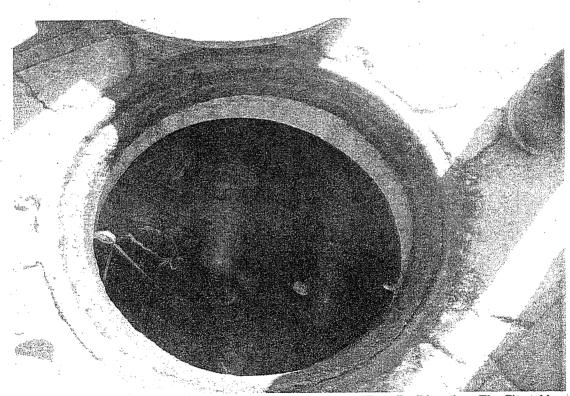


Figure 1: IMG_3259. Pump station for the low-flow diversion station at "Busy Bee" location. The City told the inspection team that the sewer system uses the low-flow diversion system to capture sewer system spills, which can then be pumped back to the WWTP. The system is a separate sewer system but is, in effect, operated similarly to a combined system.

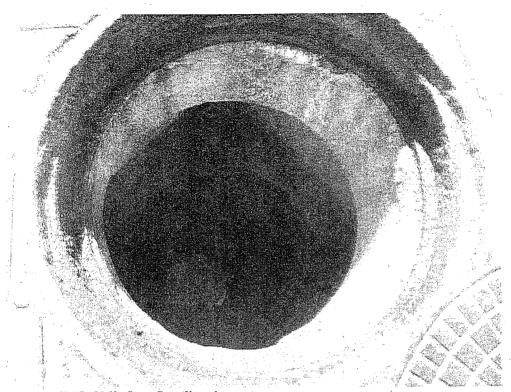


Figure 2: IMG_3260. Low-flow diversion system.

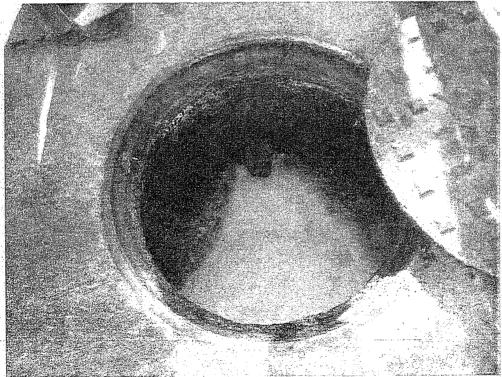


Figure 3: IMG_3261. Manhole located in the alley behind the El Galleon restaurant. Small amount of grease is visible, lots of soap suds.



Figure 4: IMG_3262. Mike Jones of United Water opening the cover at the Catherine lift station.

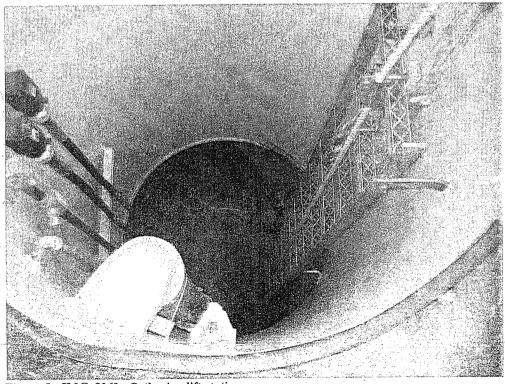


Figure 5: IMG_3263. Catherine lift station.

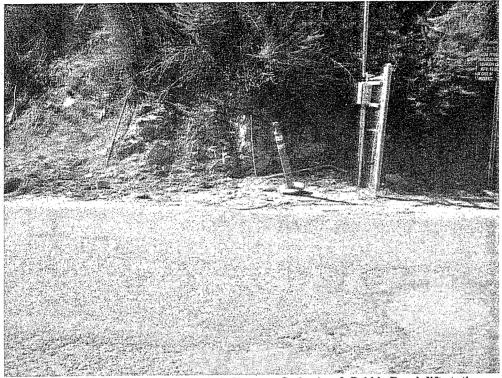


Figure 6: IMG_3264. Low point manhole between Catherine & Pebbly Beach lift stations.

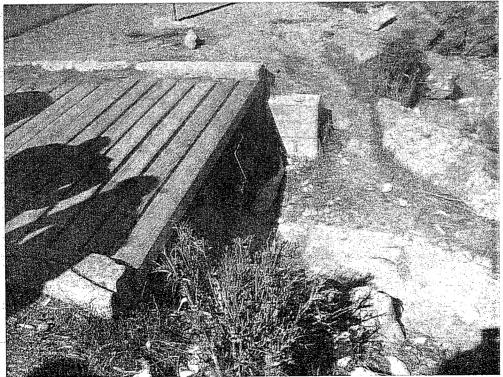


Figure 7: IMG_3265. Outlet to beach from the low point manhole pictured in IMG_3264.

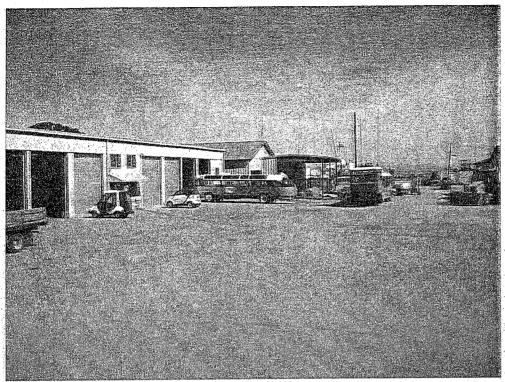


Figure 8: IMG_3266. Site of spill at Pebbly Beach lift station.

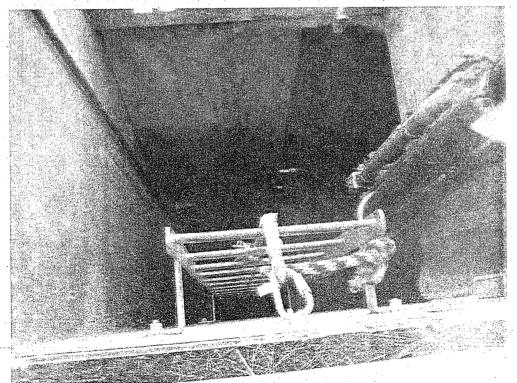


Figure 9: IMG_3267. Pebbly Beach lift station.

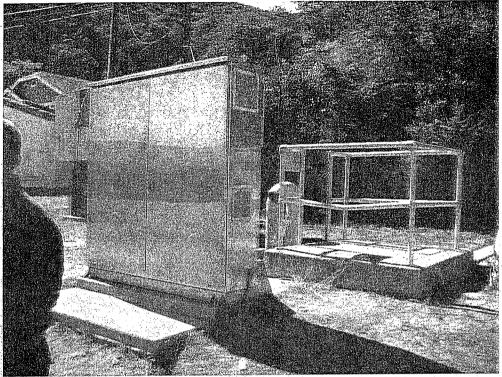


Figure 10: IMG_3268. Control panel and wet well area at Pebbly Beach lift station,

The following photos, IMG_3269 through IMG_3275, were taken at the Avalon wastewater treatment plant by Brandi Outwin, RWQCB4 on October 28, 2010.

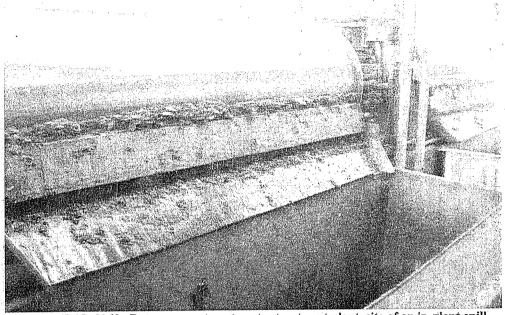


Figure 11: IMG_3269. Rotoscreens at wastewater treatment plant, site of an in-plant spill.

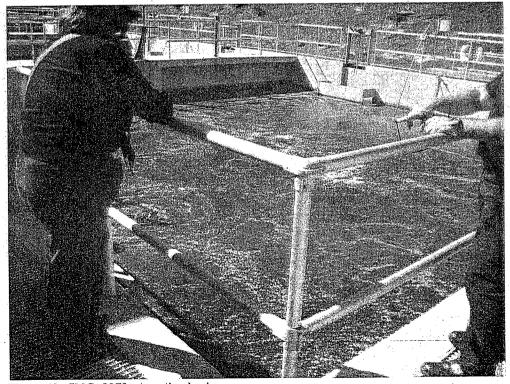


Figure 12: IMG_3270. Aeration basins.

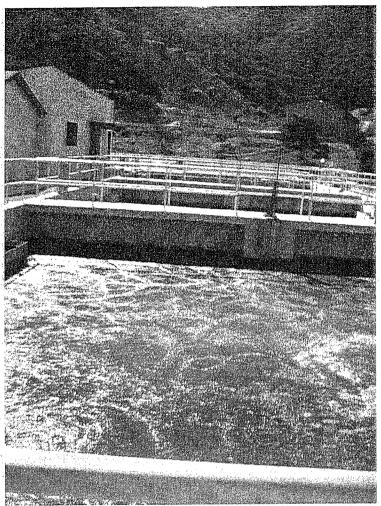


Figure 13: IMG_3271. Aeration basins. Original image has been rotated 90° clockwise.

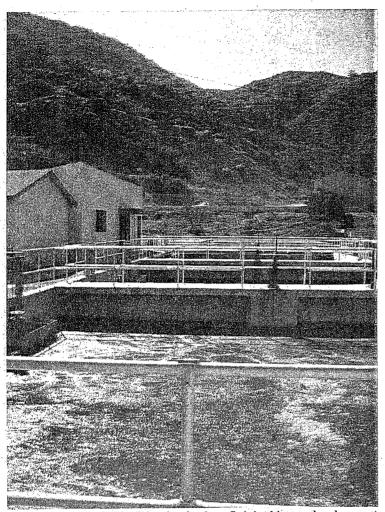


Figure 14: IMG_3272. Aeration basins. Original image has been rotated 90° clockwise.

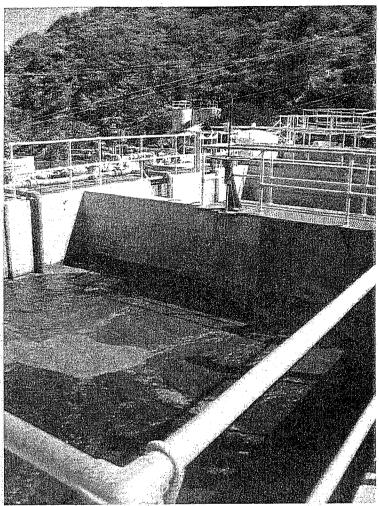


Figure 15: IMG_3273. Digesters. Original image has been rotated 90° clockwise.

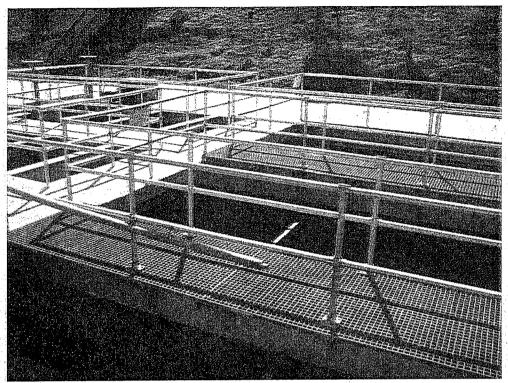


Figure 16: IMG_3274. Clarifiers.

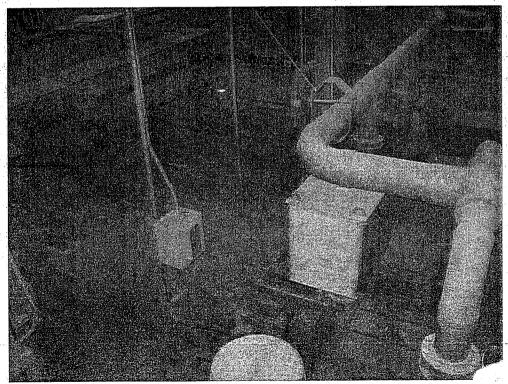


Figure 17: IMG_3275. Pumps and blowers.

ATTACHMENT 2

INSPECTION SUMMARY

1. Introduction. On October 28, 2010, EPA Region 9, accompanied by Regional Board 4 and the State Attorney General's Office inspected the City of Avalon's wastewater collection system. Information provided by Avalon's representatives is summarized in the Sewage Collection System Inspection Form, above. This summary provides highlights of EPA's inspection findings.

The City of Avalon is located on Catalina Island in Los Angeles County, California. Avalon is approximately 22 miles SSW from Los Angeles Harbor. Avalon is primarily a resort community. Local businesses consist primarily of tourist-related hospitality and retail, with few industrial facilities. Avalon owns 11 miles of sewage collection pipe, including two lift stations, and a waste water treatment plant ("WWTP"). In addition, the City also has a dual piping system to enable it to use saltwater for fire suppression, irrigation, and toilet flushing at elevations of less than 180 feet. The City of Avalon has contracted with United Water for the past 20 years to operate its WWTP, sewage collection system, and the saltwater system. The City of Avalon expects to have a new contract for operation in March 2011. Average daily dry weather flow is 0.49 MGD. Because Avalon is a resort community, high flows typically occur during the summer, when the average daily flow is 1.8 MGD. The influent to the WWTP is approximately 50% saltwater.

2. Occurrence of Sanitary System Overflows ("SSOs"). Discharges to waters of the United States without a permit are prohibited by Section 301(a) of the Clean Water Act. Part C.1 Prohibitions of the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, DWQ No. 2006-0003, states that any spill that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited. Part III of the Waste Discharge Requirements for the City of Avalon Order No. R4-2008-0028 NPDES No. CA0054372 also prohibits discharges at locations other than that described in the Permit, and prohibits overflows of untreated wastewater to surface waters or surface water drainage courses.

The City owns and is responsible for the operation and maintenance of 11 miles of pipe. According to responses on the inspection questionnaire submitted by Avalon to EPA following the inspection, from January 1, 2005 through September 30, 2010, 6 SSOs occurred. The spill rate is 10 spills/year/100 miles pipe, when averaged over the 5.75 year period. Of the spills reported during 2009 and 2010, the total spill volume was 43,500 gallons, of which only 600 gallons was recovered. During 2010, all SSOs were reported to CIWQS to have affected surface waters. *Recommendation:* In order to fully comply with the Clean Water Act, the Statewide General Waste Discharge Requirements

for Sanitary Sewer Systems, DWQ No. 2006-0003, and its NPDES Permit, the City must make all reasonable efforts to eliminate SSOs.

3. Documentation of SSOs. The State Water Resources Control Board's Order No. 2006-0003DWQ Statewide General Waste Discharge Requirements also require Avalon to develop and implement a Sewer System Management plan ("SSMP"), including a Sewer System Overflow Response Plan ("SSORP"). State Water Resources Control Board's Monitoring and Reporting Program No. 2006-003-DWQ Statewide General Waste Discharge Requirements for Sanitary Sewer Systems establishes requirements for monitoring, recordkeeping, and reporting. Paragraph B of the Monitoring Program requires that the documentation related to SSOs must be maintained by Enrollee for a period of five years. The required documents include copies of the report submitted to California Integrated Water Quality System ("CIWQS"), logs of SSO calls, service call records, SSO records, complaints, and maintenance records.

Except for 911 call audio tapes of those calls made to the sheriff's department, there is no record or log kept of sewer trouble calls made by the public to the City. Both City and United Water representatives told the inspection team that spills are sometimes reported by the public in person to City or United Water staff. United Water representatives said that a log book for the WWTP is maintained, and an entry is made to record trouble call outs.

The City of Avalon's Sewer System Management Plan ("SSMP") is dated September 2010 and was adopted by the City Council in October 2010. Section 5, page 17 of the SSMP describes the actions for staff to take when responding to spills. It says the response staff is to first call to dispatch equipment, then, "...2) determine the flow path, width, length, and depth in order to document the volume of the spill. 3) If possible, take pictures to document the spill and your efforts to contain the flow and restore the area." United Water's Sewer System Overflow Response Plan ("SSORP") is attached as an appendix to the SSMP. Item three of the SSORP instructs response staff to "take camera, GPS, and reporting packet". Based on the statements made by the City during the interview, response personnel do not follow the procedures established by the City's SSMP and SSORP for documenting SSOs. City staff told inspectors that the city vehicles used for spill response do not contain either spill response forms or cameras, and that the response staff does not photograph spills. Although the CIWQS reports prepared by United Water do contain the coordinates of the spill location, the City staff told inspectors that the City has no GPS capability, nor any staff currently trained to use it. United Water staff said that response staff used a photo chart to estimate spill volume. The SSORP contains a "sewer overflow volume estimation guide" comprised of a series of nine photos depicting manhole overflows ranging from 5 to 275 gallons per minute, it is a very poor quality copy, and the SSORP includes no alternate methodology for estimating spill volume. During the interview, the City staff told inspectors that the spill

responders do not take any notes at the spill site. The City told inspectors that, except for the trouble call log binder kept at the WWTP, it does not maintain any written documentation of the spill. United Water staff said that the project manager writes and submits spill reports to CIWQS, with a copy furnished to the City. The inspection team viewed the trouble call binder, which contained copies of the spill response forms submitted to CIWQS, but it contained neither supporting documentation nor other spill documentation required to be maintained under the Statewide General Waste Discharge Requirements. *Recommendation:* To comply with the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, the City should fully implement its SSMP, and establish standard procedures for preparing complete and accurate spill documentation, beginning with logging initial calls from the public until the final spill report is submitted to CIWQS. The City should also consider preparing spill response documentation kits to be maintained in service vehicles, consistent with its SSMP and Overflow Response Plan. Staff should receive additional training in preparing and maintaining SSO documentation.

4. Reporting of SSOs. According to the State Water Resources Control Board's Order No. 2006-0003-DWQ Statewide General Waste Discharge Requirements, the City of Avalon, was required to commence reporting all SSOs to the State's CIWQS database on August 17, 2006.

According to the State's CTWQS database, no spills were reported by Avalon to CTWQS prior to July 2010. Three spills were reported during 2010. However, the inspection form filled out by Avalon representatives and submitted to EPA, listed a total of six public SSOs and one building backup as having occurred during the past five years. All SSOs are required to be reported under the State's Order No. 2006-0003-DWQ.

During the interview, City of Avalon representatives told the inspection team that spills in Avalon's downtown area flowed via the storm drain system into the storm water low-flow diversion system at Crescent Ave. near Metropole Ave. and then pumped to the treatment plant. However, the City staff also said that the diversion system was such that runoff went directly to the ocean after about an hour of heavy rainfall. Although the City did state to inspectors that such downtown SSOs were "usually due to pipe failure", the number of such spills was not stated, and no such spills have been reported to CIWQS. All spills from the sewage collection system are required to be reported to CIWQS, regardless the spill is pumped from the low-flow diversion system to the treatment plant. *Recommendation:* The City is required to report all SSOs, including spills that may occur on private property but are due to blockages in a city-owned pipe, as required by the State's Monitoring and Reporting Program No. 2006-0003-DWQ. The City should provide EPA with an explanation of the reasons any SSOs were not reported to CIWQS. The City should report all missing spill data to CIWQS, as appropriate.

5. SSO Containment and Mitigation. Part D.3. of the State Water Resources Control Board Order No. 2006-0003-DWQ states that in the event of a spill, the Enrollee shall take all feasible steps to contain and mitigate the effects of an SSO.

Of the three SSOs reported to CIWQS, the total volume reported is 29,000 gallons. 600 gallons, or 2%, was reported as recovered. United Water has a service truck and also a trailer available for response to SSOs. The trailer is equipped with bypass pumps, sewer snake, and jetter. The City of Avalon owns a combination truck, but United Water must call to request it from the City's Department of Public Works; city staff operates the combination truck. According to the City, Public Works does not usually get calls to respond to spills. Two of the reported spills were reported to have occurred at Pebbly Beach Pump Station; which carries virtually all of the City's flow. The first reported SSO, on August 21, 2010 was caused by corrosion of the control system due to hydrogen sulfide and saltwater. United Water representatives told inspectors that the pump station was serviced weekly; however, the stainless steel support in the control panel failed due to corrosion and the SSO occurred before the panel was repaired. United Water contracted electricians from the mainland to make the extensive repairs. The second SSO occurred ten days later and was caused by a pump becoming vapor locked while the repairs were ongoing. The third SSO occurred at the WWTP following an electrical "brownout". When asked whether the pump station was routinely checked out following electrical problems, United Water representatives stated that "someone should", but did not state that this was actually a standard procedure. Recommendation: The City should fully implement its SSMP, and improve its efforts to contain and mitigate SSOs. Because of the proximity of the sewage collection system to the Pacific Ocean, the City should consider developing and implementing spill contingency plans.

6. Sewer System Maintenance. State Water Resources Control Board Order No. 2006-0003-DWO requires Enrollees to develop an SSMP, including an Operation and Maintenance Program and Preventative Maintenance Program. Although the City indicated on the inspection form that 20% of the system is cleaned annually, the City told inspectors during the interview that sewer cleaning is not done on a schedule, but that cleaning is reactive to a problem. United Water staff told inspectors that it was "aware of several problem spots", but there is no accelerated cleaning schedule. Avalon owns a vactor truck and jet rodder, but this equipment is used by the City Public Works staff primarily for the low-flow diversion system, and not used for cleaning the sewage collection system. Preventive maintenance is done only at pump stations. There are no programs established for either grease or root control. The City of Avalon provided copies of CCTV work done during July 2010, which shows evidence of both heavy root intrusion and pipes in need of urgent repair in the west side of the city. According to statements made by the City during the interview, there is no maintenance management system, no written work orders, no preventive maintenance schedules, and no long-term capital improvement plan. This appears to conflict with information provided on the

inspection form. There is only one hard copy sewer map, which the City told inspectors was "not accurate". The inspection team visited the WWTP, and noted that although some refurbishment had occurred, the decant tank appeared to be in need of urgent repair, and was not being used. *Recommendation:* To fully comply with State Water Resources Control Board Order No. 2006-0003-DWQ, the City should fully implement its SSMP. The City must have an accurate sewer map. In addition, the City must plan, budget, and complete appropriate maintenance measures, including preventive maintenance and pipe repairs, in a timely manner to prevent failure and repeat SSOs. Scheduled preventive maintenance may also help to reduce costs by reducing costly emergency repairs.

- 7. Maintenance Management System and Record Keeping. State Water Resources Control Board Order No. 2006-0003-DWQ requires all Enrollees to maintain records of all SSO calls, spill records, work orders, and lists of complaints from the public. When requested by the inspection team, the City had no such documentation available. The inspection team was also told by the City that Avalon has no digitized sewer system maps, no computerized maintenance management system, and no automated system for generating work orders. There is no system for scheduling routine maintenance, tracking maintenance completed, for facilitating or adjusting the frequency of maintenance, or for generating work orders following SSOs. Recommendation: The City should implement its SSMP and adopt a maintenance management system that would more efficiently allow the City to integrate, track, and record maintenance, spills, inspection history, and condition assessment of its pipes. In addition, it would provide a system for maintaining the SSO documentation required by the State's Order No. 2006-0003-DWQ.
- 8. Capital Improvement Program and Aging Infrastructure. State Water Resources Control Board Order No. 2006-0003-DWQ requires all Enrollees to develop an SSMP which "should include a capital improvement plan that addresses proper management and protection of the infrastructure assets. The plan shall include a time schedule for implementing the short- and long-term plans plus a schedule for developing the funds needed for the capital improvement plan." Although the City lists several projects on the inspection form, the City told inspectors that there is no long-term plan currently in place for capital improvements. During the inspection, the City told inspectors that it had refurbished the WWTP, but the inspection team observed a decant tank at the WWTP that had been taken out of service and was clearly in need of repair. The City told inspectors that the funds for repairing the decant tank is in the budget and the project is authorized. The City explained to inspectors that the work had not been done because it doesn't have confidence that projects had been correctly prioritized. The City said that it has had the funds budgeted for its capital improvement projects, but has not started work because it has been awaiting the award of a contract with a consultant to reevaluate and rank proposed improvements.

During the inspection, the City staff said that most of the sewer pipe was installed approximately 100 years ago. Much of the downtown pipe has been slip-lined, which may account for the apparent conflict with pipe ages listed by the City on the inspection form that indicate no pipe older than 50 years. Most of the city's pipe is clay, although some is of cast iron. Although the lifespan of clay sewer pipe does vary, the average life of a clay sewer pipe is often considered to be approximately 70 years. According to the City staff's statements during the interview, approximately 80% of the City's system has been CCTV inspected, and 50% of that was slip lined approximately 7 to 8 years ago, mainly in the flat area of the City. Therefore, approximately 4.5 miles of the 11 mile system has been slip lined, and 6.5 miles of unrehabilitated pipe remains, mainly in the west side on the slope above downtown. However, the inspection form filled out by the City says that 6.7 miles of the pipe had been rehabilitated during the past 10 years. During the inspection, the City told inspectors that it currently makes repairs upon failure, and rehabilitates its sewer pipes in conjunction with street repairs. Although approximately half of the system has been slip lined, the City stated that there is currently no long range program in place to systematically repair, rehabilitate, or replace components of the sewage collection system before it fails. Recommendation: The City should fully implement its SSMP and consider instituting a Capital Improvement Program that includes sufficient funding to refurbish its wastewater infrastructure over time so as to avoid failure.